

Site Analysis Plan [167.04 (H)(1)]

The following items are to be placed on the site analysis plan;

- 1) Natural Features: The location and types of all natural features on the proposed development property and 100 feet beyond the property lines. Includes but not limited to;
 - a) Trees
 - i) Significant Trees (GPS trunk location and edge of canopy)
 - ii) Groups of all other trees or individual trees (edge of canopy)
 - b) Water elements
 - i) Rivers/streams/creeks (perennial/intermittent)
 - ii) Springs
 - iii) Lakes
 - iv) Ponds
 - v) Flood plains and floodways
 - vi) Natural Drainage Pattern (use arrows to indicate flow)
 - c) Geological structures
 - i) Topography (2ft intervals, highlight $\geq 15\%$ grade)
 - ii) Rock outcroppings
 - iii) Sinkholes
 - d) Soils (Soil Survey Washington County, Arkansas by the USDA March 1969)
- 2) Man-made features
 - a) Ponds
 - b) Ditches
 - c) Fences
 - d) Abandon utilities or other underground structures
- 3) Plan Requirements
 - a) Current and Proposed Property lines
 - b) Existing Utilities, overhead and underground (identify if to remain, be removed or go from overhead to underground)
 - c) Existing Utility Easements or prescribed utility easements
 - d) Existing trails, bike paths etc.
 - e) Existing rights-of-way on-site and on border of property
 - f) Master street plan
- 4) Any other design factors that may impact the existing natural features
- 5) Any other natural features items that may impact the design of the site

Tree Information

- 1) The following information must be provided for each significant tree or group of trees.

Table 1 – Significant Trees

Tree ID #	Species – Common Name	DBH (")	Crown Spread Diameter (ft)	Preservation Priority	Note
1	Post Oak	36	180	High	Save, root prune

Table 2 – Protected Grouping of Trees (3" DBH/10ft tall and larger under Significant status)

Group ID #	Predominate Species – Common Name	Avg. DBH (")	Avg. Height (ft)	Preservation Priority	Note
1	Mimosa	8	15	Low	Remove
2	American Elm	16	35	Mid	Save, root prune, deadwood

Site Analysis Report [167.04 (H)(4)]

The report needs to contain information pertinent to the preservation and removal of trees including but not limited to;

- 1) Detail the design approaches used to minimize damage to or removal of existing canopy.
- 2) Justification why individual trees or canopy must be removed
- 3) Detail on-site mitigation options or off-site alternatives.

Tree Preservation Plan [167.04 (H)(2)]

Tree Preservation:

The following items are to be placed on the Tree Preservation Plan;

- 1) All site improvements
- 2) All grade changes
- 3) Property lines
- 4) All significant trees to be preserved by location and canopy
- 5) All significant trees to be removed by location and canopy
- 6) All groupings of trees less than significant to be preserved by canopy
- 7) All groupings of trees less than significant to be removed by canopy
- 8) Limits of soil disturbance on-site and off-site
- 9) Construction envelope

Tree Protection:

The following applicable tree protection measures are to be placed on the Tree Preservation Plan;

- 1) Tree protection fencing
- 2) Tree trunk planking
- 3) 6-8" of mulch cover over root areas
- 4) Areas of root pruning
- 5) Restrictions on traffic and parking on the site
- 6) Construction entrance, material storage areas, construction trailer, etc.
- 7) Any other items which may be used to protect tree roots, trunks or crowns from construction activities

If water lines, other utilities, street improvements are to be constructed off-site a tree preservation plan will need to be completed for these sites as well.